

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P475585

Luminaire Tested: **24GR-LD5-48-F125-UNV-L830-CD1-U**

Issue Date: 02/10/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P475585  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 02/10/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 24GR-LD5-48-F125-UNV-L830-CD1-U  
Description: GR 2'X4' LED TROFFER w/ F125 LENS  
Light Source: 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4685.9 lumens  
Efficiency: N/A  
Efficacy: 142.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.23 / 1.33  
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')  
CIE Type: Direct

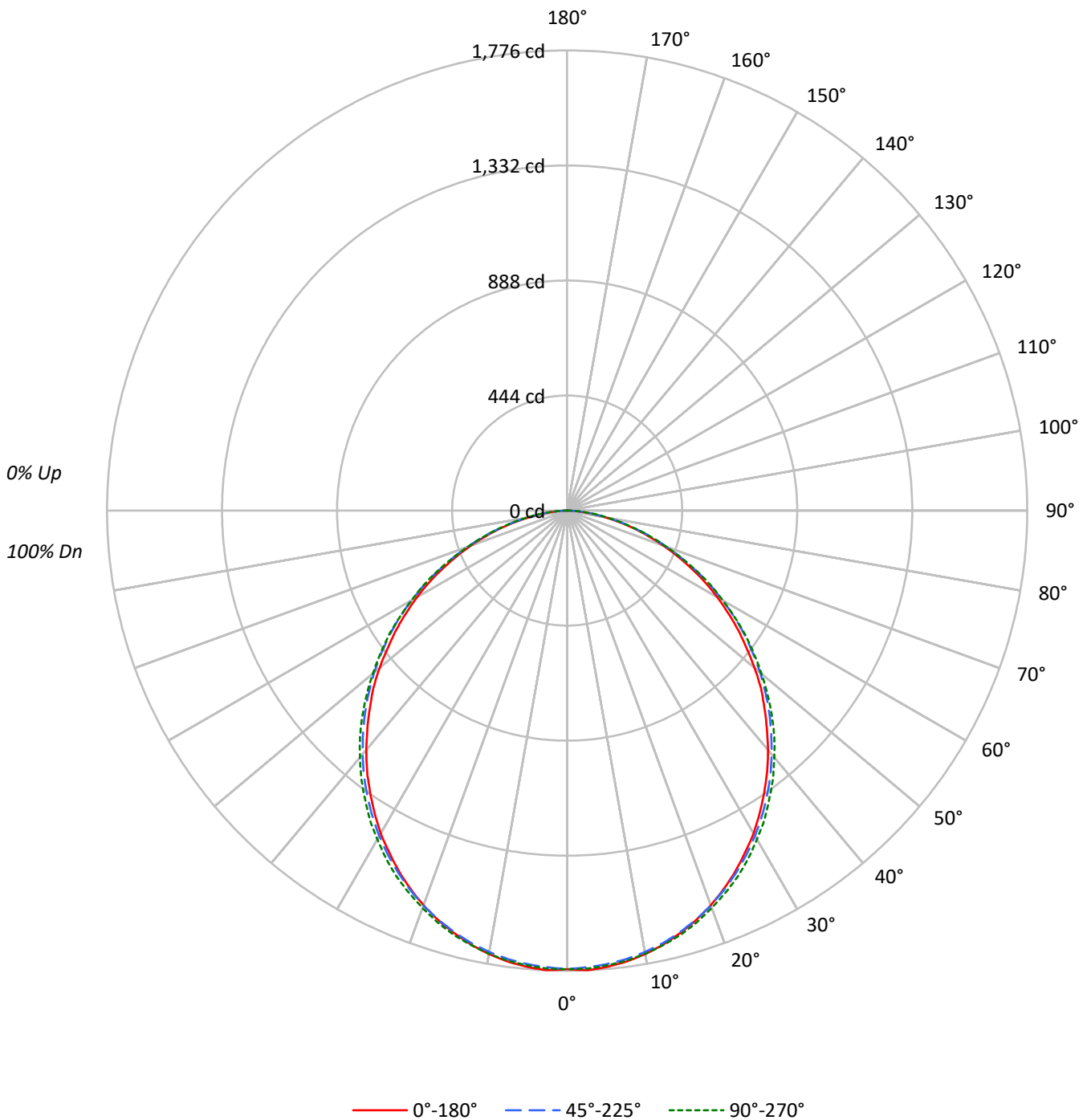
Input Watts (W): 33  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	109	104	100	97	106	102	98	95	98	95	92	94	91	89	90	88	86	84
2	99	91	85	79	97	89	83	78	86	81	76	83	78	75	80	76	73	71
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	71	66	62	60
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	53	51
5	77	64	55	48	74	63	54	48	61	53	48	59	52	47	57	51	47	45
6	71	58	49	42	69	57	48	42	55	47	42	53	47	41	52	46	41	39
7	66	52	44	38	64	51	43	37	50	43	37	48	42	37	47	41	37	35
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	31
9	57	44	36	30	56	43	35	30	42	35	30	41	35	30	40	34	30	28
10	54	41	33	27	52	40	32	27	39	32	27	38	32	27	37	31	27	25

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2381	2381	2381
5°	2388	2373	2380
10°	2375	2363	2373
15°	2351	2346	2360
20°	2321	2322	2337
25°	2281	2290	2314
30°	2236	2253	2276
35°	2178	2208	2234
40°	2119	2157	2185
45°	2049	2099	2125
50°	1977	2035	2049
55°	1892	1960	1974
60°	1801	1863	1865
65°	1683	1748	1757
70°	1559	1603	1598
75°	1385	1435	1439
80°	1159	1200	1245
85°	869	936	968



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.2	3.6
10°-20°	475.7	10.2
20°-30°	711.1	15.2
30°-40°	840.1	17.9
40°-50°	848.1	18.1
50°-60°	740.2	15.8
60°-70°	539.6	11.5
70°-80°	291.0	6.2
80°-90°	72.9	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1354.0	28.9
0°-40°	2194.2	46.8
0°-60°	3782.4	80.7
0°-90°	4685.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4685.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1770	1770	1770	1770	1770	
5°	1768	1762	1757	1759	1762	168
15°	1688	1684	1684	1688	1694	476
25°	1536	1536	1542	1552	1558	707
35°	1326	1330	1344	1357	1360	830
45°	1077	1084	1103	1117	1117	831
55°	806	816	835	839	842	721
65°	529	540	549	550	552	525
75°	266	269	276	277	277	283
85°	56	58	61	64	63	69
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1769.7	1769.7	1769.7	1769.7	1769.7
2.5°	1775.5	1769.1	1764.1	1765.1	1769.4
5°	1768.3	1761.9	1757.2	1758.8	1762.2
7.5°	1755.6	1749.7	1746.0	1747.6	1752.1
10°	1738.0	1733.3	1729.8	1732.2	1737.0
12.5°	1715.7	1710.9	1709.6	1713.1	1717.3
15°	1687.8	1684.4	1684.1	1688.1	1694.5
17.5°	1656.5	1653.0	1654.9	1660.2	1665.8
20°	1620.9	1617.7	1621.4	1628.6	1632.3
22.5°	1580.3	1577.6	1584.2	1591.7	1596.5
25°	1536.2	1536.4	1542.3	1552.1	1558.5
27.5°	1487.3	1489.1	1497.9	1507.5	1513.8
30°	1439.2	1437.6	1450.1	1460.5	1465.2
32.5°	1383.4	1384.2	1398.8	1409.5	1416.6
35°	1326.3	1330.0	1344.4	1357.4	1360.0
37.5°	1268.7	1271.3	1288.6	1301.3	1304.8
40°	1206.2	1211.0	1228.0	1240.0	1244.2
42.5°	1141.2	1147.3	1165.6	1178.1	1183.7
45°	1076.6	1084.3	1102.9	1116.7	1117.0
47.5°	1014.2	1019.8	1037.8	1050.0	1048.7
50°	944.6	952.8	972.2	979.7	978.9
52.5°	873.4	885.9	903.7	909.5	908.7
55°	806.5	816.3	835.4	838.6	841.5
57.5°	737.1	745.6	766.4	767.7	767.1
60°	669.4	677.1	692.2	696.0	693.0
62.5°	601.1	608.8	622.4	626.1	625.6
65°	528.6	540.0	549.1	550.1	552.0
67.5°	461.1	468.3	477.1	478.7	477.3
70°	396.3	402.4	407.5	408.5	406.2
72.5°	329.4	335.0	342.1	343.5	340.8
75°	266.4	269.1	276.0	277.1	276.8
77.5°	205.3	207.5	212.5	216.5	217.0
80°	149.6	150.3	154.9	157.8	160.7
82.5°	99.1	101.2	104.7	107.6	110.2
85°	56.3	57.6	60.6	63.5	62.7
87.5°	21.8	24.7	25.0	27.9	29.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)